



# CONSTRUCTION EQUIPMENT

## 21 VOLVO L90H 25852 - DIESEL ENGINE



**Sample No:** VCP430541  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:** 21



### SAMPLE INFORMATION

Sample Number	<b>VCP430541</b>	VCP313377	VCP313378	VCP405784
Sample Date	<b>12 Dec 2023</b>	09 Nov 2023	19 Sep 2023	25 Jul 2023
Machine Hours	<b>11840</b>	11407	10633	9801
Oil Hours	<b>400</b>	600	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### PLEASANT RIVER LUMBER

PO BOX 68  
 DOVER FOXCROFT, ME  
 US 04426  
 Contact: BURLEY HIGGINS  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	13.1	13.2	13.2
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.1	9.4	9.8
Oxidation (PA)	%	<b>55</b>	61	61	57

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.7	0.9	0.6
Nitration (PA)	%	<b>55</b>	69	73	63
Sulfation (PA)	%	<b>52</b>	55	56	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	4	3
Sodium	ppm	<b>1</b>	0	0	0
Potassium	ppm	<b>&lt;1</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>6</b>	11	12	7
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>3</b>	4	4	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>67</b>	58	59	57
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1041</b>	1160	1158	1142
Magnesium	ppm	<b>954</b>	1048	1035	1036
Zinc	ppm	<b>1273</b>	1255	1248	1239
Phosphorus	ppm	<b>1046</b>	1130	1115	1137
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	0	0	0

**Depot:** PLEDOV  
**Unique No:** 10809276  
**Signed:** Don Baldrige  
**Report Date:** 03 Jan 2024



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## GRAPHS

